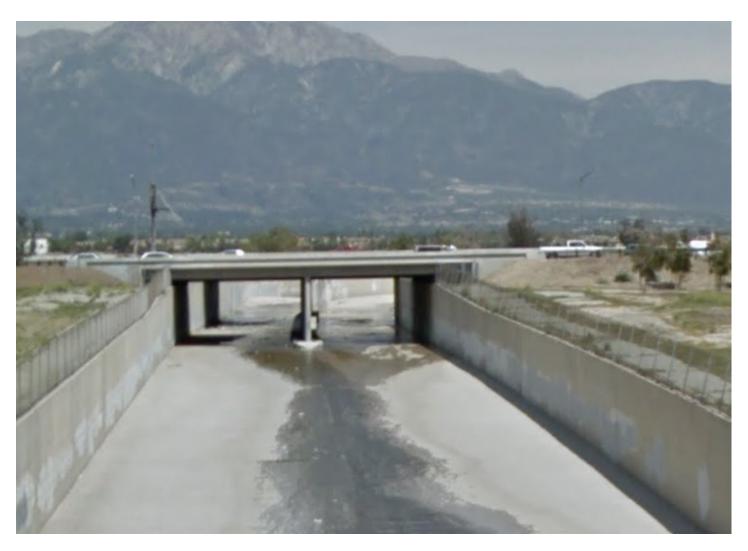
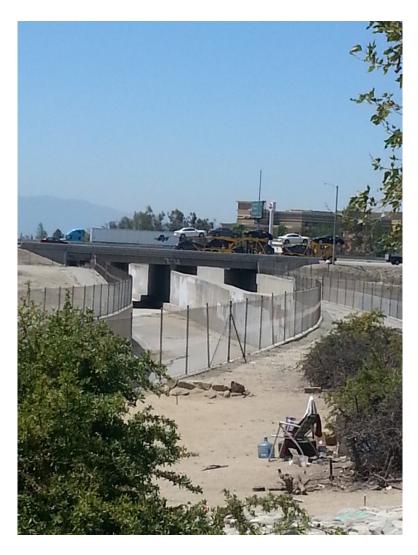
Appendix B Photos



West Cucamonga Creek

Direction: Facing north

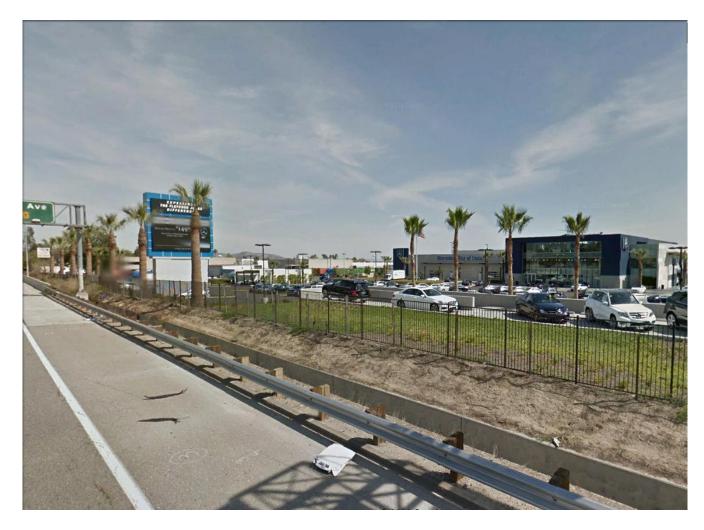


Cucamonga Creek



Lower Deer Creek Channel

Direction: Facing north on East Airport Drive



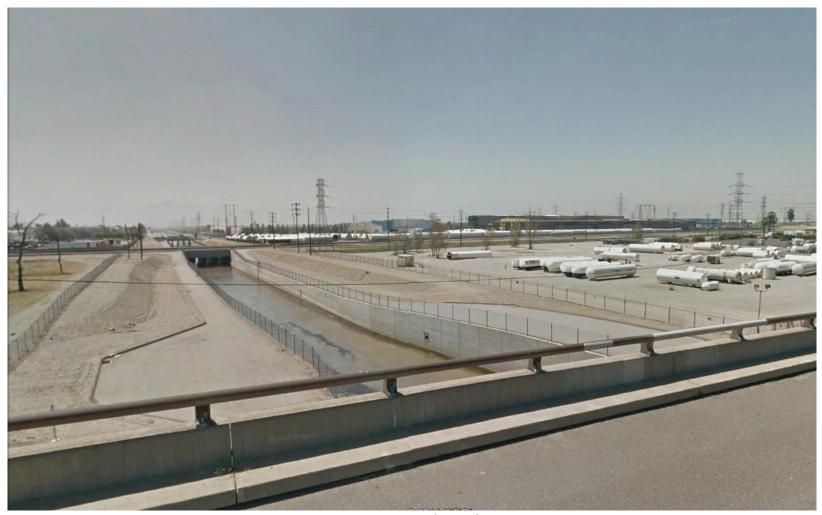
Cal Commerce Center Storm Drain

Direction: Facing west on I-10 just east of Milliken Avenue offramp



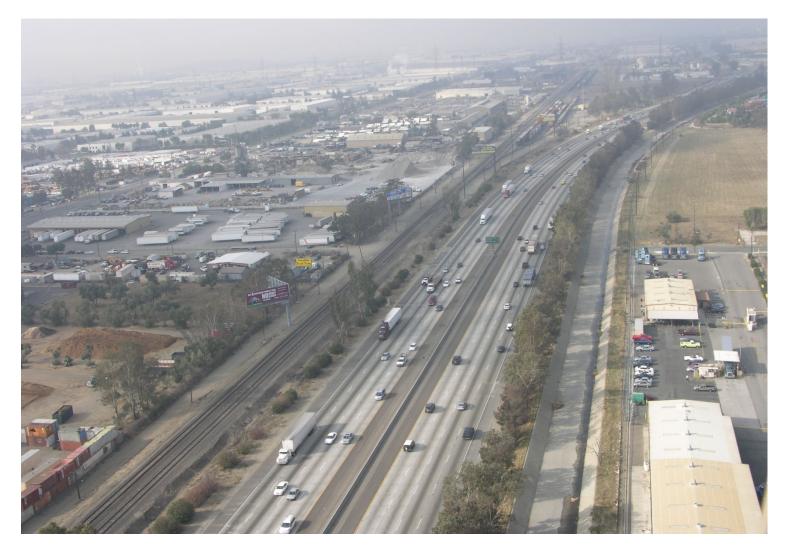
East Etiwanda Creek

Direction: Looking south



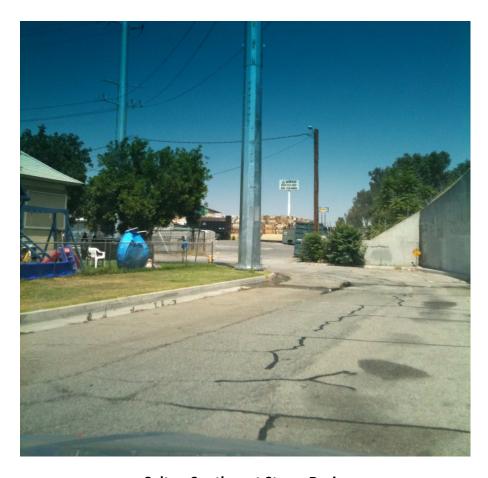
San Sevaine Channel

Direction: Looking south



I-10 Channel

Direction: Looking west. I-10 Channel right side of freeway



Colton Southwest Storm Drain

Direction: At J Street Looking east towards Pennsylvania Ave. (5th St.)



11th Street Storm Drain

Direction: Eastbound I-10 looking south



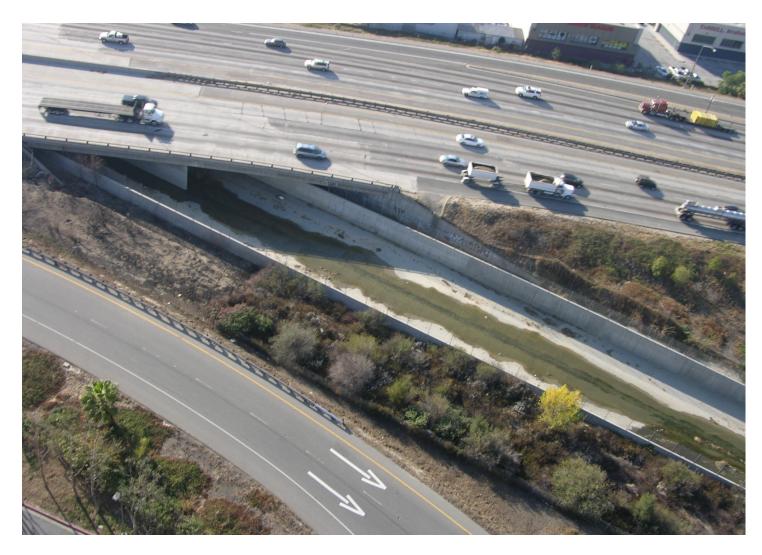
Warm (Lytle) Creek

Direction: Looking north



Santa Ana River

Direction: Looking north



San Timoteo Creek

Direction: Looking upstream channel



Mission Zanja

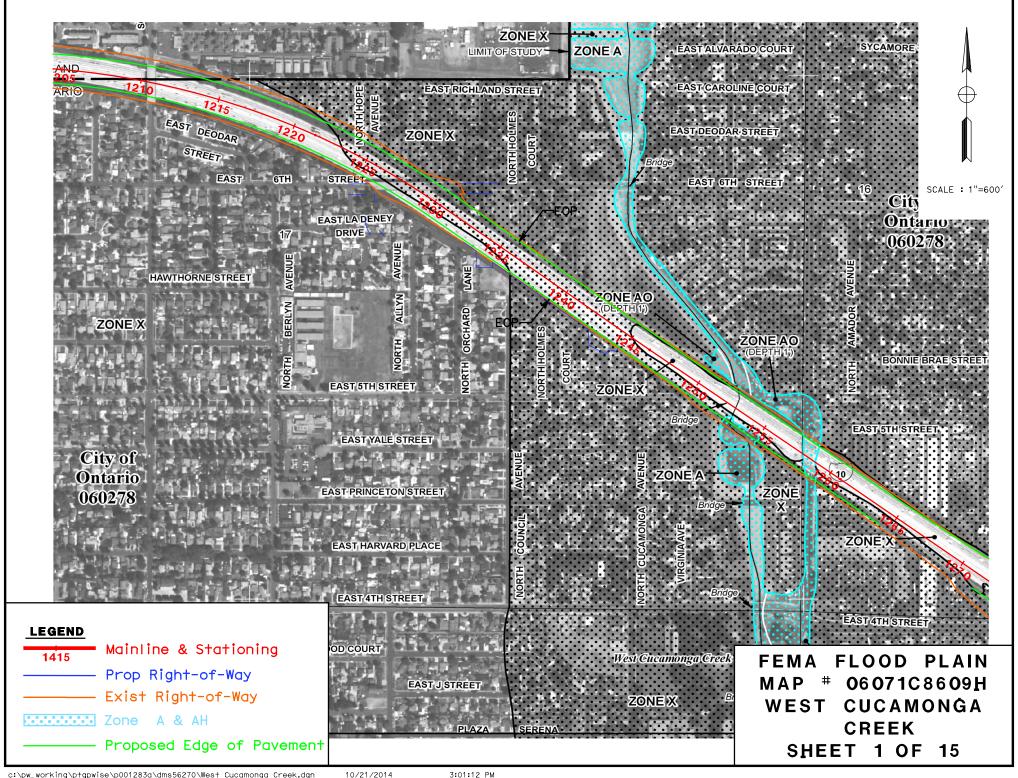
Direction: Looking north

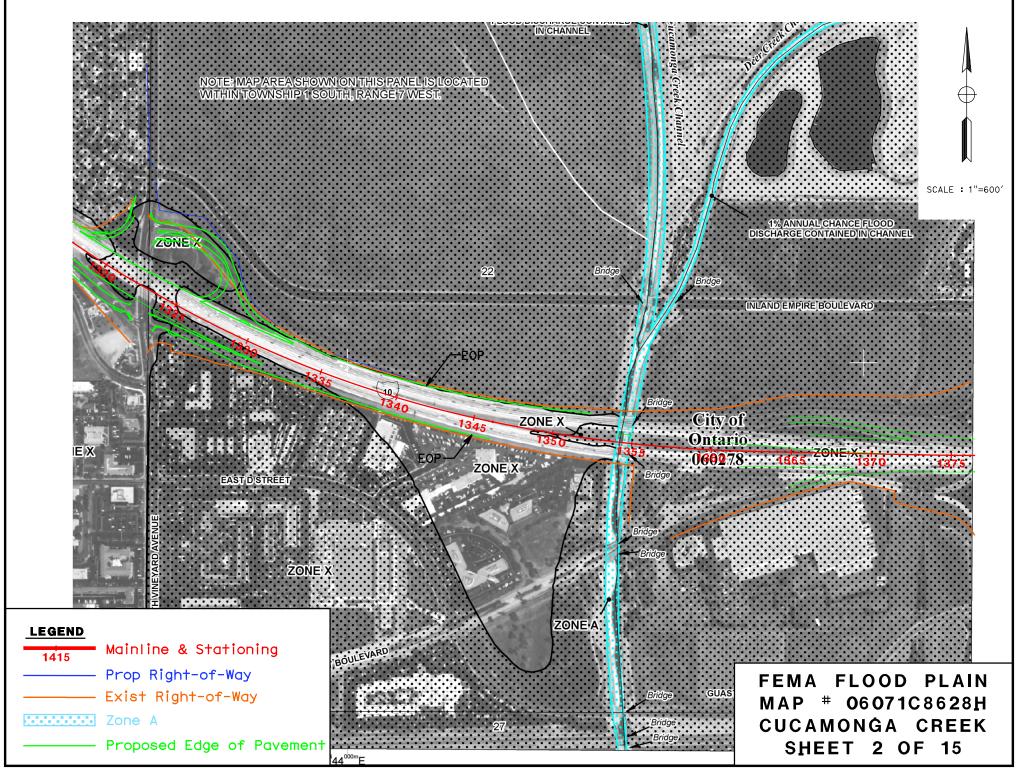


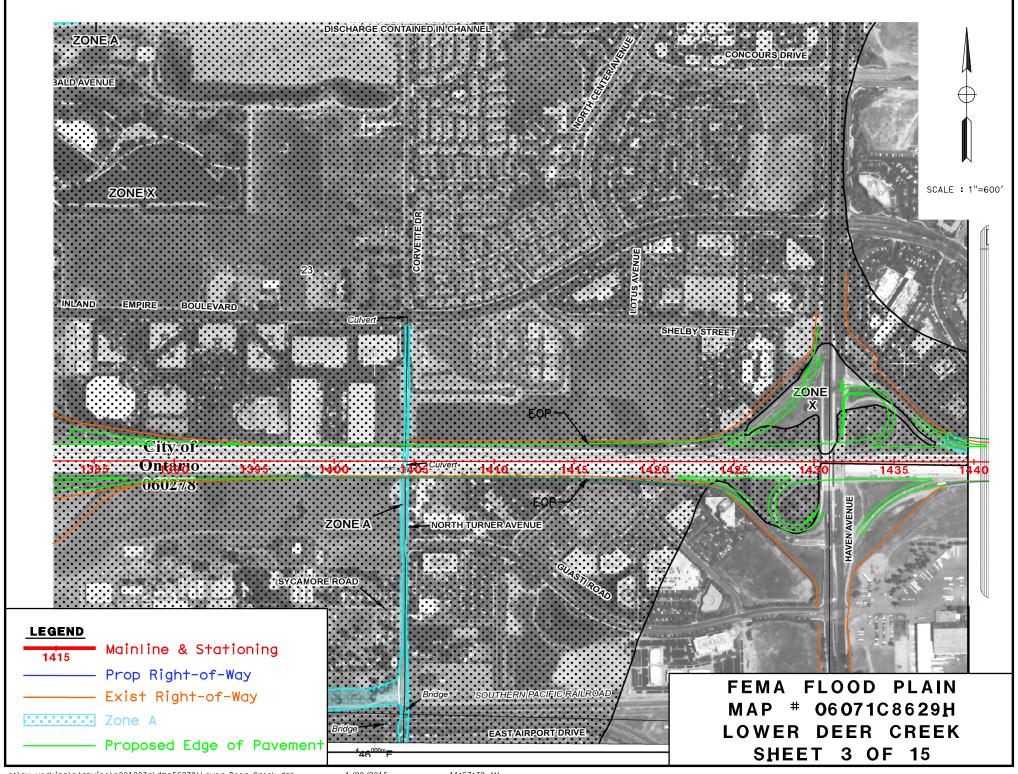
The Zanja

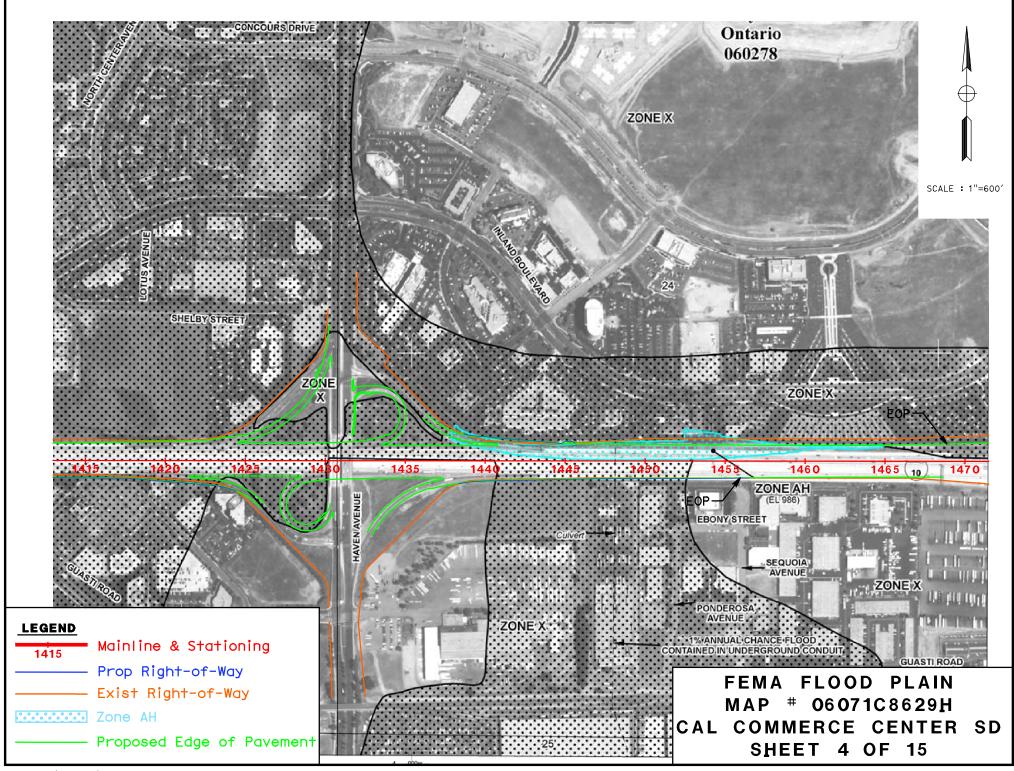
Direction: Looking south

Appendix C Proposed Roadway Improvements Adjacent to Floodplains



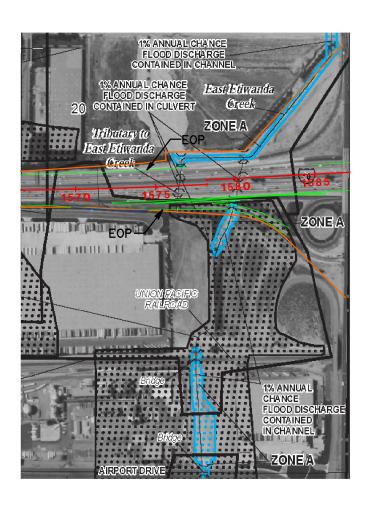








SCALE : 1"=600'



LEGEND

Mainline & Stationing

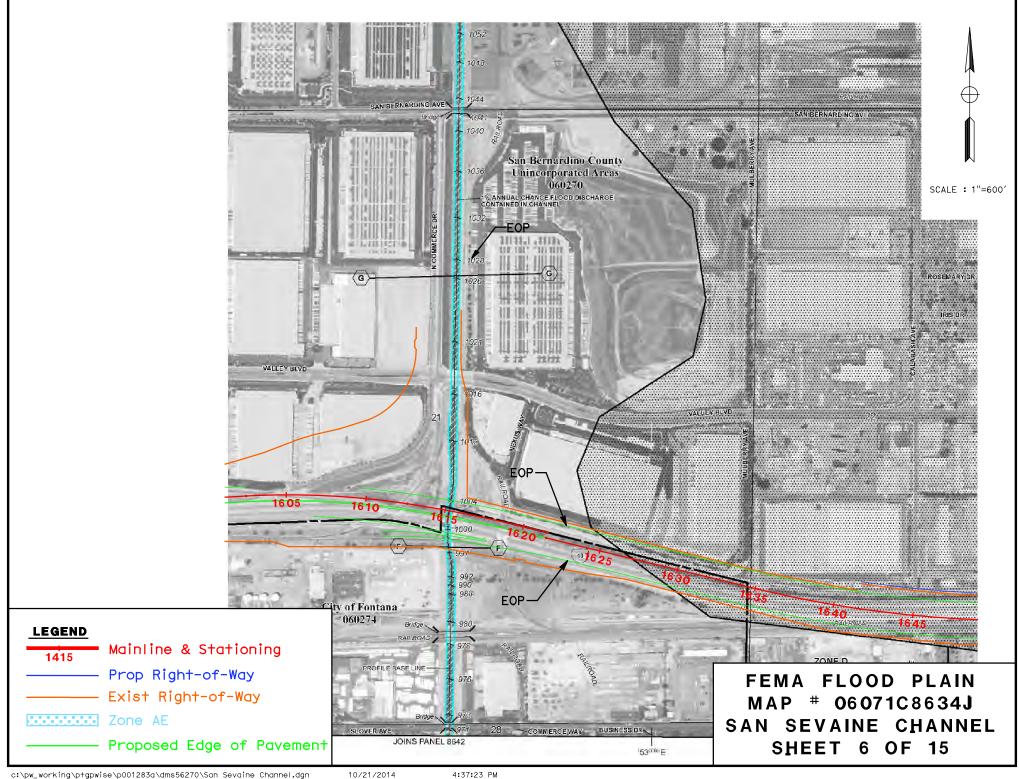
Prop Right-of-Way

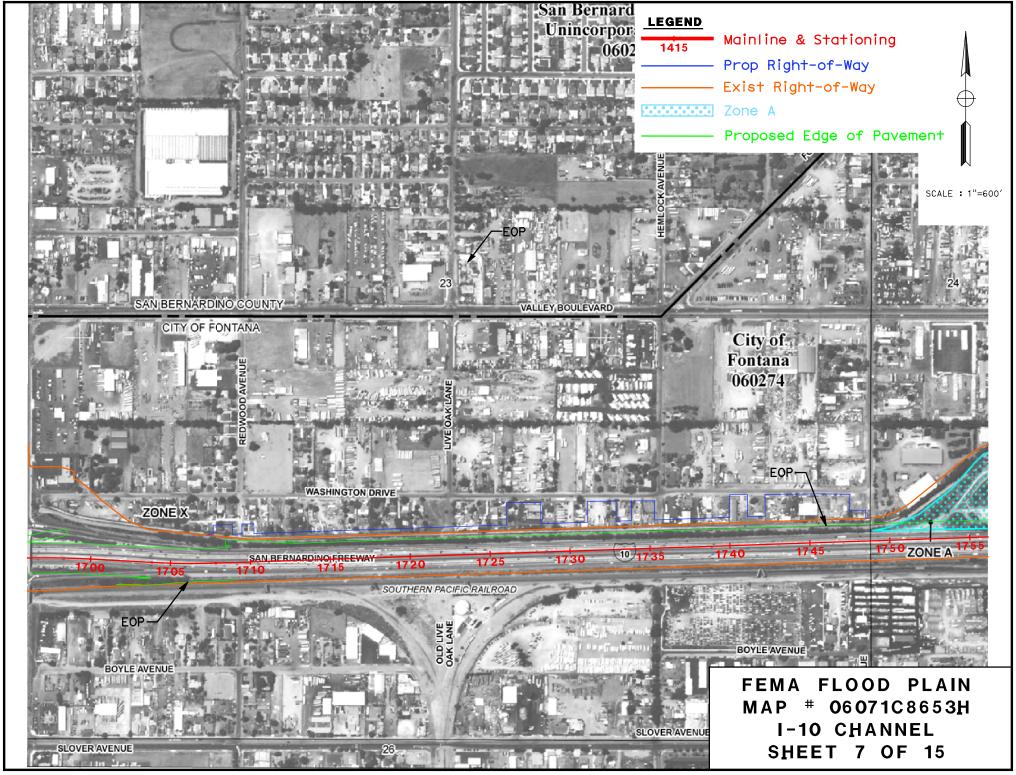
Exist Right-of-Way

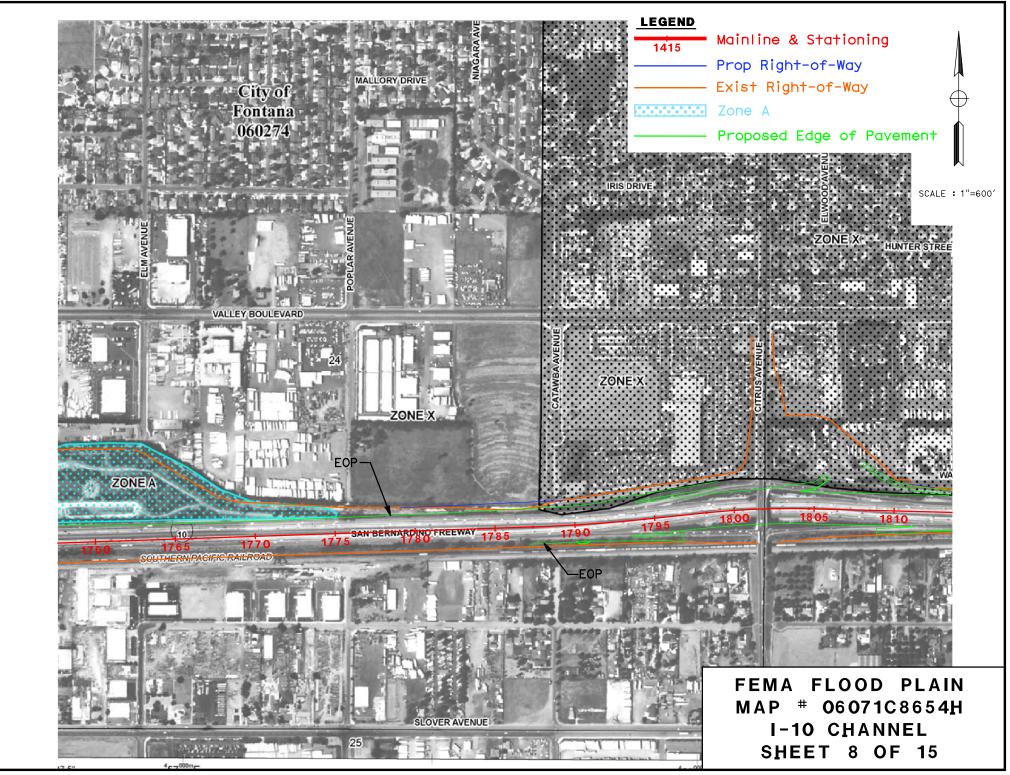
Zone A

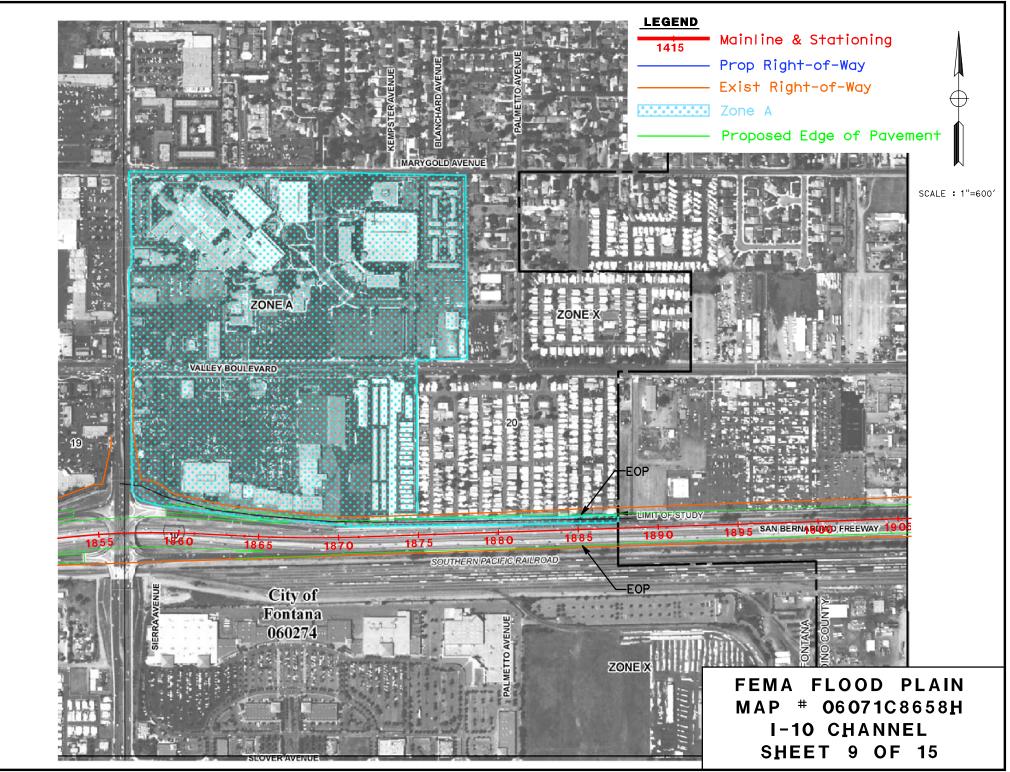
Proposed Edge of Pavement

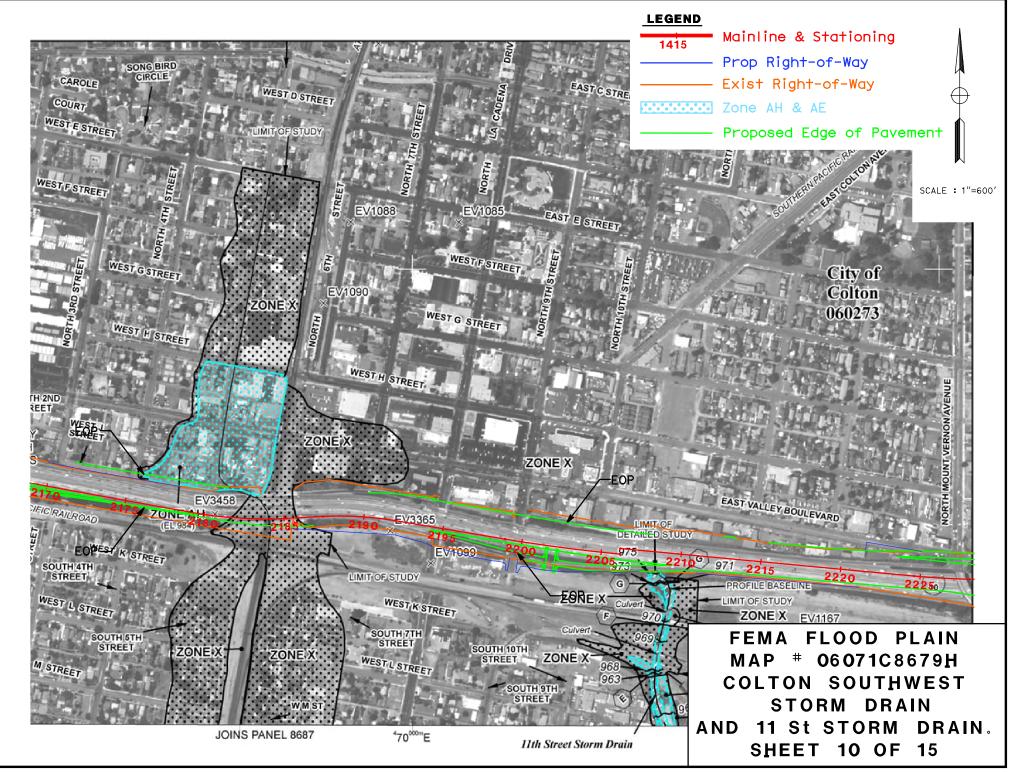
FEMA FLOOD PLAIN
MAP # 06071C8634H
EAST ETIWANDA CREEK
SHEET 5 OF 15

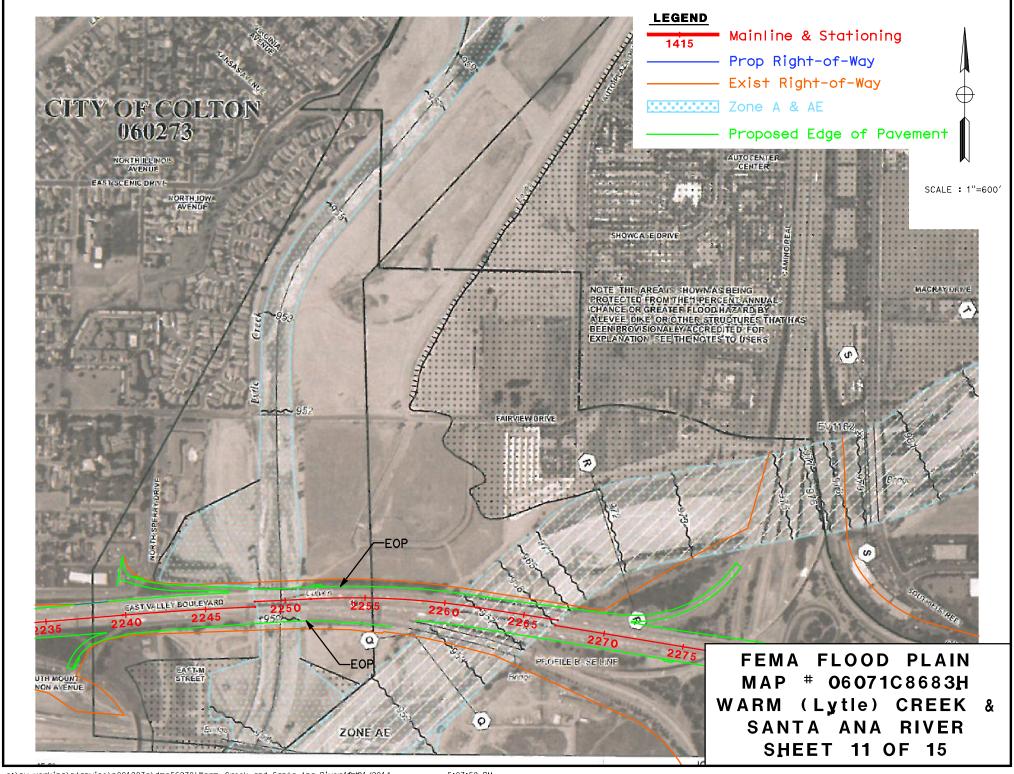


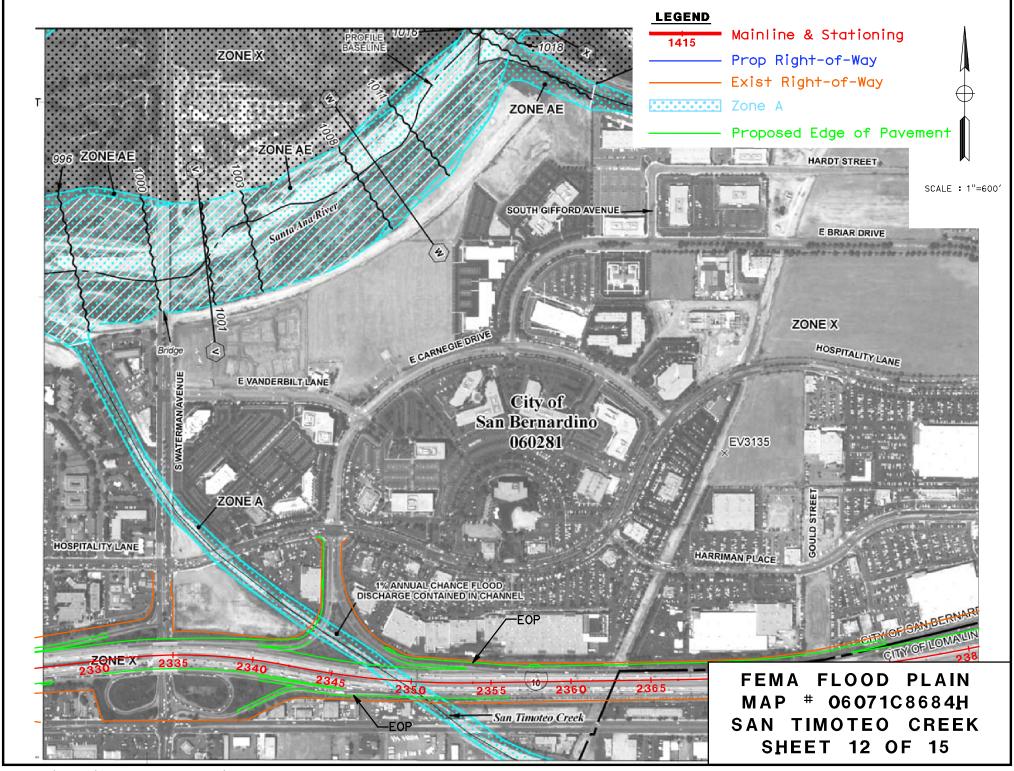


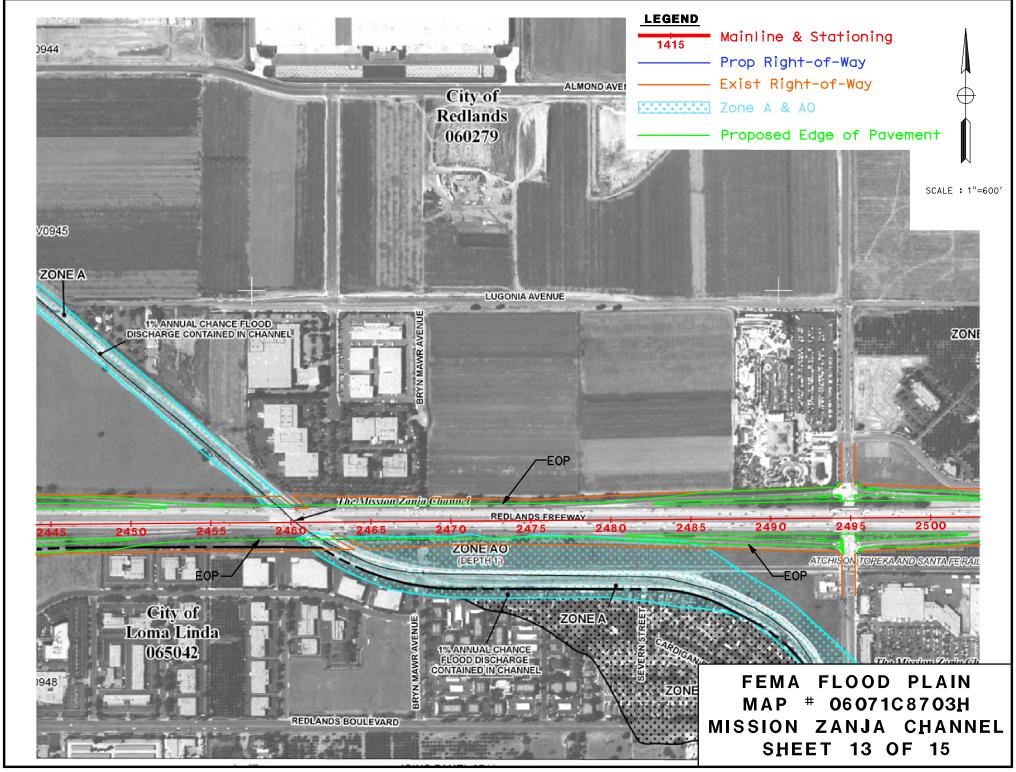




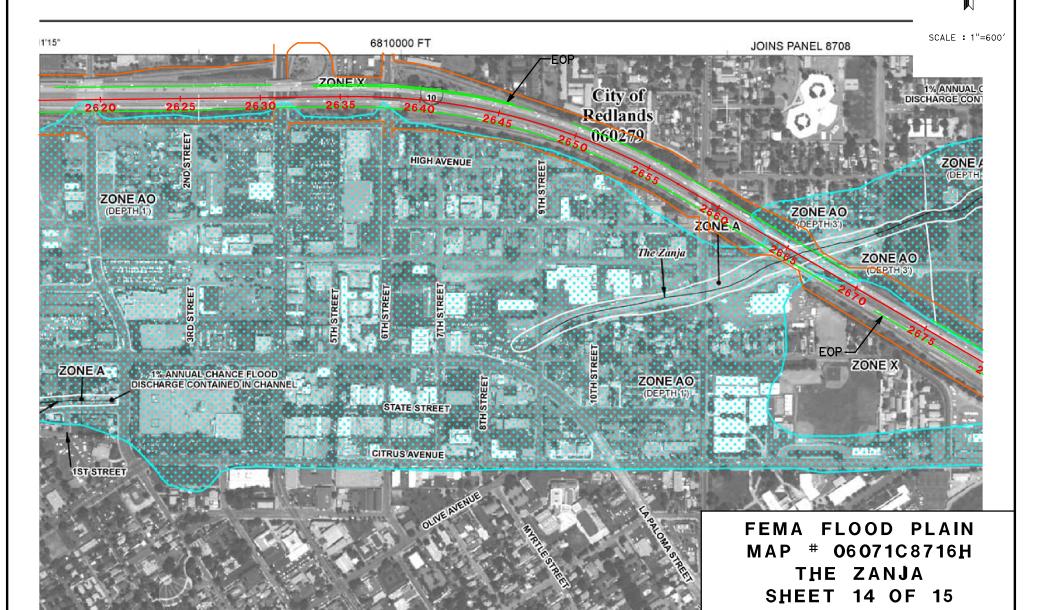


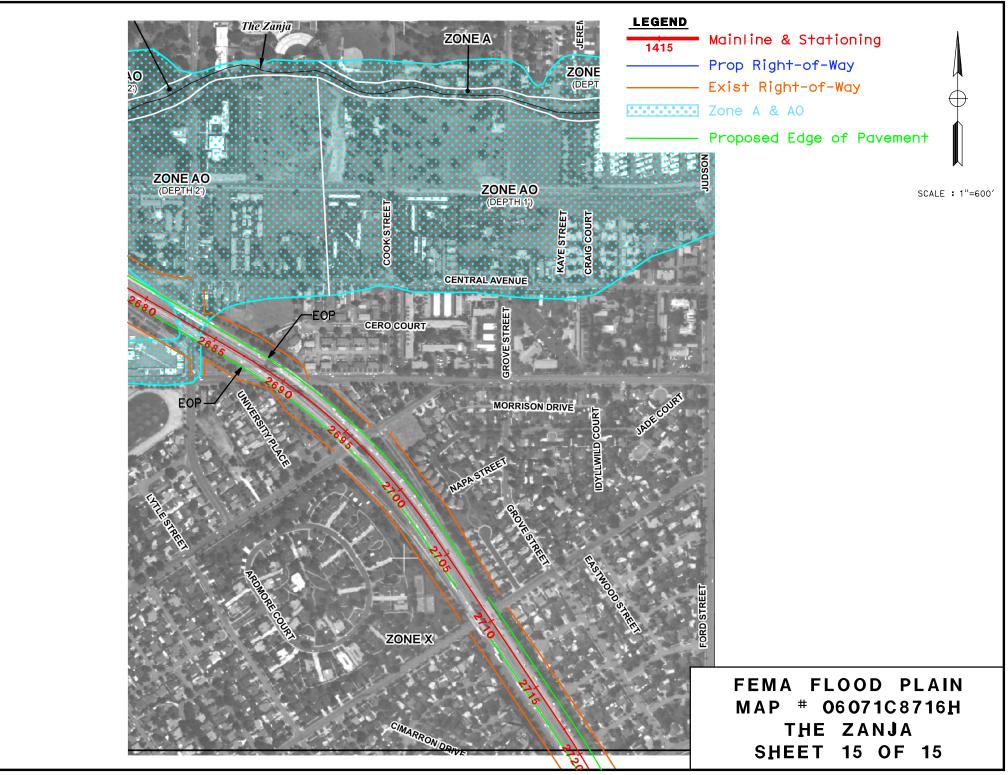












Appendix D Location Hydraulic Study Forms

Dist.	8	Co.	Sbd	Rte.	10		.M.		
EA	0C2500						idge No.	54-1117	
Floodpl	lain Descri _l	otion:	West Cu	camonga C	Creek Cha	nnel			
	ription of F	-	•	• • •					
soundw	alls, etc. ar	id desigi	i elements	to minim	ize flood	piain	impacts)	
Freewa	y widening	and reta	ining wall						
	<u>, </u>		<u> </u>						
2. ADT	•	Currei	nt	260,97	0	P	rojected		378,900
								. 3 .	
-	aulic Data:		Base Flo	-	1 10		•	ft^3 / s	
	= unknown		_ The floo				nan Q100:		
Q=	unknown				unknov	vn_			
Overtop	pping flood	Q=	unknowi	$\frac{1}{m}$ m ³ / s		V	VSE=	unknown	
Are NF	TP maps an	d studie	s available	? YE	S <u>X</u>		NO		
4 T .1	1.1 1	.•	1	*.1 *	1 ,	ď	1 0		
4. Is the	e highway l		alternative			y floc	odway?		
	YE	s	_	INC	OX				
5 Atto	sh man with	a flood 1	imite outli	nad shawi	ng all bu	ildin	as or oth	er improvem	onto
	the base flo			ileu silowi	ng an bu	Hami	gs of our	er improven	ients
WILLIIII (ine base no	oupiani.							
Potentia	al Q100 back	water d	amages:						
			C						
A. Re	esidences?				1	NO_	X	YES	
B. Ot	her Bldgs?]	ON	X	YES	
C. Cr	ops?]	NO_	X	YES	
D. Na	ntural and b	eneficial	l floodplai	n values?]	NO_	X	YES_	
6. Type	of Traffic:								
A. Eme	ergency sup	ply or ev	acuation 1	oute?	ľ	Ю	X	YES	
	rgency veh				1	NO _	X	YES	
C. Prac	ticable deto	our avail	able?		1	NO		YES	X
D. Scho	ool bus or n	nail rout	e?		I	NO	X	YES	
								_	

7. Estima	ted duration of traffi	c interruption for 1	00-year event	hours:	unknown
8. Estima	ted value of Q100 floo	od damages (if any	r) – moderate r	risk level.	
A.	Roadway	\$	0		
B.	Property		0		
	Total	\$	0_		
9.	Assessment of Lev	rel of Risk	Low Moderate High	X	- -
May be n	Risk projects, during ecessary to determine – Dist. Hydraulic E	e design alternativ	_	n Study Ris	k Analysis Date
•	nbers 3,4,5,7,9)				
	ny longitudinal encro ible Floodplain deve	_	ant encroachm	ent, or any	support of
			NO	X	YES
If yes, pro 23 CFR 6	ovide evaluation and 50.113	discussion of prac	ticability of al	ternatives i	n accordance with
	on developed to con Ill be retained in the	- •	al requiremen	t for the Lo	ocation Hydraulic
Signature	Dist. Project Engi	neer			Date
•	nbers 1,2,6,8)				-

Dist	. 8	Co.	Sbd	Rte.	10	P.M.			
				_			54-438L &		
EA	0C250					No.	438R		
Floo	dplain Descri	iption:	Cucamon	ga Creek					
_									
	escription of l	_		-	arriers i.e. co	oncrete barr	iers, soundw	alls, etc	c. and
desi	gn elements to	o minimize f	loodplain ir	npacts)					
Free	way inside w	idenina							
1100	way mside w.	ideiiiig							
2. A	DT·	Current		262 080		Projected		3:	84 850
2.11	D 1.	Current		202,000	_	Trojected			04,030
3 Н	ydraulic Data	•	Base Flo	od O100-		23 500	ft^3/s		
	E100= <u>unknow</u>						- 10 / 5		
	unknow					 Q 1001			
						- WCE-	1		
	rtopping flood					WSE=	unknown		
Ale	NFIP maps a	na studies av	anable?	IES		_ NO			
4 Ic	the highway	location alter	rnative with	in a requi	latory flood	way ?			
т. 13		ES		_	X	•			
			_	1,0		_			
5 A	ttach map wit	h flood limit	s outlined s	howing a	ll huildings	or other imr	rovements v	within t	he
	floodplain.	ii iiood iiiiii	s outilited s	mowing a	n bunuings	or other min	oro verments v	, v 1 (111111)	110
	•								
Pote	ntial Q100 bac	kwater dama	ges:						
	Residences?				NO	X	-	YES	
В.	Other Bldgs?)			NO	X	-	YES	
C.	Crops?				NO	X	-	YES	
D.	Natural and b	beneficial flo	odplain val	ues?	NO	X	-	YES	
6. T	ype of Traffic	·•							
Λ T	manan ay sur	amler on arroom	estion mouto	9	NO	V		VEC	
	mergency sup mergency vel			•	NO NO	X X	-	YES YES	
	racticable det				NO NO	Λ		YES	X
\mathbf{C} . I	racticable det	our avamable	· •		110		-	TEO _	4 1

D. Schoo	l bus or mail route?		NO	X	YES
7. Estima	ted duration of traffi	ic interruption for 1	00-year event	hours:	0
8. Estima	ted value of Q100 flo	od damages (if any) – moderate ri	isk level.	
A.	Roadway	\$	0		
B.	Property	\$	0		
	Total	\$	0		
9.	Assessment of Lev	vel of Risk	Low	X	-
					-
			High		-
_	Risk projects, during ecessary to determing	0 0 1	Ū	Study Risk	Analysis
•	– Dist. Hydraulic Enbers 3,4,5,7,9)	ngineer			
	ny longitudinal encr n development?	oachment, significa	ant encroachme	ent, or any s	upport of incompatible
			NO	X	YES
If yes, pro CFR 650.		discussion of prac	ticability of alt	ternatives in	accordance with 23
	on developed to con etained in the projec		al requirement	t for the Loc	ation Hydraulic Study
Signature	– Dist. Project Engi	ineer			Date
_	nbers 1,2,6,8)				

Dist	. 8	Co.	Sbd	Rte.	10	P.M.			
Б.	0.00500					Bridge			
EA	0C2500	<u> </u>				No.	None		
Floo	odplain Descrip	tion:	Lower De	er Creek C	Channel				
	escription of Pr				arriers i.e. co	oncrete barr	iers, soundw	alls, et	c. and
Free	way widening	and retainin	g wall						
2. A	DT:	Current		257,580	-	Projected		4	08,460
	ydraulic Data: E100= <u>unknown</u>						$\int ft^3/s$		
	unknown		_ 1110 11000			thui Q 100.			
	rtopping flood					- WSE-	unknown		
	NFIP maps and						ulikilowii		
5. A	the highway lo YES ttach map with floodplain.	S	-	NO	X	_	provements v	within t	he
	ential Q100 backy	water damaş	ges:						
A.	Residences?				NO	X	_	YES	
B.	Other Bldgs?				NO	X	<u>.</u>	YES	
C.	Crops?				NO	X	-	YES	
D.	Natural and be	eneficial flo	odplain val	ues?	NO	X	<u>-</u>	YES	
6. T	ype of Traffic:								
A. E	Emergency supp	oly or evacu	ation route	?	NO	X		YES	
	mergency vehi	•			NO	X	-	YES	
C. P	racticable detou	ır available	?		NO		_	YES	X

D. Schoo	l bus or mail route?		NO	X	YES
7. Estima	ted duration of traffi	ic interruption for 1	00-year event	hours:	0
8. Estima	ted value of Q100 flo	od damages (if any) – moderate ri	isk level.	
A.	Roadway	\$	0		
B.	Property	\$	0		
	Total	\$	0		
9.	Assessment of Lev	vel of Risk	Low	X	-
					-
			High		-
_	Risk projects, during ecessary to determing	0 0 1	Ū	Study Risk	Analysis
•	– Dist. Hydraulic Enbers 3,4,5,7,9)	ngineer			
	ny longitudinal encr n development?	oachment, significa	ant encroachme	ent, or any s	upport of incompatible
			NO	X	YES
If yes, pro CFR 650.		discussion of prac	ticability of alt	ternatives in	accordance with 23
	on developed to con etained in the projec		al requirement	t for the Loc	ation Hydraulic Study
Signature	– Dist. Project Engi	ineer			Date
_	nbers 1,2,6,8)				

Dist		8	Co.	Sbd	Rte.	10	P.M.	8.2	
ΕA		002500					Bridge		
EA	_	OC2500		Cal Camp		ter Storm Dra		None	
1.100	шріані	Description)11 .	Cai Collin	nerce Cen	ter Storiii Dra	1111		
_									
				lude any p imize floo		arriers i.e. c npacts)	oncrete barr	iers, sound	walls,
Free	way w	idening an	d embank	ment fill					
2. A	DT:		Current		263,160	=	Projected		419,760
						unknown d, if greater			
	· ·			=		unknown			
			-				=	unknown	
						X			
5. A	ttach m	YES			NO	latory flood X all buildings	-	provements	within
Pote	ential Q	100 backwa	ater damaş	ges:					
A.	Reside	ences?				NO	X	YES	
B.	Other					NO	X	YES	
C.	Crops	_				NO	X	YES	
D.	Natura	and bene	eficial floo	odplain val	ues?	NO	X	YES	
6. T	ype of	Traffic:							
A. E	Emergei	ncy supply	or evacua	ation route	?	NO	X	YES	
	_	ncy vehicle				NO	X	YES	
	_	ble detour		?		NO		YES	X

D. School	bus or mail route?		NO _	X	YES
7. Estimat	ed duration of traffic	interruption for 100	-year event h	ours:	2
8. Estimat	ted value of Q100 flood	l damages (if any) –	moderate ris	k level.	
A.	Roadway	\$ 0 \$ 0 \$ 0			
B.	Property	\$ 0			
	Total	\$ 0			
9.	Assessment of Level	l of Risk	Low	X	
			Moderate		•
			High		-
			_		-
_	Risk projects, during eccessary to determine		onal Design S	Study Risk	Analysis
Signature	– Dist. Hydraulic Eng	gineer			Date
(Item num	nbers 3,4,5,7,9)				-
	ny longitudinal encroa ble Floodplain develo	_	encroachmer	nt, or any s	upport of
			NO _	X	YES
If yes, pro 23 CFR 6	ovide evaluation and d 50.113	liscussion of practic	ability of alte	rnatives in	accordance with
	on developed to comp Il be retained in the pi	•	requirement 1	for the Loc	ation Hydraulic
Signature	– Dist. Project Engine	eer			Date

(Item numbers 1,2,6,8)

Dist	•	8	Co.	Sbd	Rte.	10	P.M.	10.99	
EA		002500					Bridge		D C
	dnlai	OC2500 n Description	n.	Etiwanda	Crook Flo	odnlein		54 0378L	
1100	ирган	n Descriptio)11 .	Etiwanua	CICCK I 10	оцріані			
	-	otion of Propesign eleme		• •	•	arriers i.e. co	oncrete barr	iers, sound	walls,
Brid	ge wi	dening and	embankm	ent fill					
2. A	DT:		Current		215,000	-	Projected		354,540
				The floor	d of recor	d, if greater	than Q100:	unknown	
_		unknown	_			unknown			
Ove	rtoppi	ing flood Q	=	unknown	m^3 / s		WSE=	unknown	
						X			
							2		
4. Is	the h	•			_	latory flood	•		
		YES		_	NO	X			
		map with fl loodplain.	ood limits	outlined s	howing a	ıll buildings	or other imp	provements	within
Pote	ntial	Q100 backwa	ater damag	ges:					
Α.	Resid	dences?				NO	X	YES	
		r Bldgs?				NO	X	YES	
	Crop	_				NO	X	YES	
D.	Natu	ral and bene	eficial floo	odplain val	ues?	NO	X	YES	
6. T <u>y</u>	ype o	f Traffic:							
A. E	merg	ency supply	or evacua	ation route	?	NO	X	YES	
	_	ency vehicle				NO	X	YES	
	_	able detour		?		NO		YES	X

D. School	bus or mail route?		NO _	X	YES
7. Estimat	ed duration of traffic	interruption for 100	-year event l	hours:	0
8. Estimat	ted value of Q100 flood	l damages (if any) –	moderate ri	sk level.	
A.	Roadway	\$ 0			
B.	Property	\$ 0 \$ 0			
	Total	\$ 0			
9.	Assessment of Level	l of Risk	Low	X	
			Moderate		-
			High		-
			_		-
_	Risk projects, during eccessary to determine		onal Design	Study Risk	Analysis
Signature	– Dist. Hydraulic Eng	gineer			Date
(Item num	nbers 3,4,5,7,9)				
	ny longitudinal encroa ble Floodplain develo	_	encroachme	nt, or any s	upport of
			NO	X	YES
If yes, pro 23 CFR 6	vide evaluation and d 50.113	liscussion of practic	ability of alto	ernatives in	accordance with
	on developed to comp Il be retained in the pr	•	requirement	for the Loc	eation Hydraulic
Signature	– Dist. Project Engine	eer			Date

(Item numbers 1,2,6,8)

Dist	. 8	Co.	Sbd	Rte.	10	_ P.M.	11.64
EA	0C2500					Bridge No.	54 0454 L R S
Floo	dplain Descrip	tion:			nel crossing u angular chanr		0 is contained within
	escription of P design element	-	•	- •		concrete barrie	ers, soundwalls, etc.
Brid	ge Widening						
2 1	ь						
2. A	DT:	Current		203,220		Projected _	337,290
	ydraulic Data:					20,360	$- ft^3 / s$
WSI	E100= unknown	1	_ The flo	od of reco WSE	rd, if greater	r than Q ₁₀₀ :	
Q=	unknowr	ft^3 / s			unknown	_	
Ove	rtopping flood	Q=	unknow	$\underline{\mathbf{m}}$ $\mathbf{m}^3 / \mathbf{s}$			unknown
Are	NFIP maps and	d studies a	vailable?	YES	X	_ NO	
4. Is	the highway lo	ocation alto	ernative w	_	ulatory floo	-	
	ttach map with floodplain.	flood lim	its outlined	showing	all building	s or other impr	rovements within the
Pote	ntial Q100 back	water dam	ages:				
A.	Residences?				NO	X	YES
B.	Other Bldgs?				NO	X	YES
C.	Crops?				NO	X	YES
D.	Natural and be	eneficial fl	oodplain v	alues?	NO	X	YES
6. T	ype of Traffic:						
A. E	mergency sup	oly or evac	uation rou	te?	NO	X	YES
	mergency vehi				NO		YES

C. Practic	able detour available	?	NO		YES	X
D. School	bus or mail route?		NO	X	YES	
7. Estimat	ed duration of traffic	interruption for 100	-year event	hours:	0	
8. Estimat	ed value of Q100 floo	d damages (if any) –	- moderate r	risk level.		
A.	Roadway	\$ 0				
B.	Property	\$ 0 \$ 0				
	Total	\$ 0				
9	Assessment of Leve	el of Risk	Low	X		
			Moderate	X		
			High		•	
May be no Signature	Risk projects, during ecessary to determine – Dist. Hydraulic Erabers 3,4,5,7,9)	e design alternative.	onai Desigi	·	Date	
	ny longitudinal encro n development?	achment, significant				oatible
If we pro	vide evaluation and	discussion of practic		X ternatives in a	· —	23
CFR 650.		discussion of practic	admity of af	ternatives in a	ecordance with	. 23
	on developed to comptained in the project		requiremen	t for the Locat	tion Hydraulic S	Study
Signature	– Dist. Project Engir	neer			Date	
(Item num	abers 1,2,6,8)					

Dist.	8	Co.	Sbd	Rte.	10	P	.M.	14.5	
EA	0C2500	_				Br	idge No.		
-	ain Descrip		I-10 Cha	nnel betwe	een Cherry	and	Citrus Av	enues	
and Citr	us and east of	of Sierra							
	ription of P	-	•	• • •					
soundw	alls, etc. an	id desigr	n elements	to minim	ize flood	plain	impacts))	
Freeway	y widening	and emb	nankment :	fi11					
1 iccwa _s	y widening	and cine	Jankinent .	1111					
2. ADT	•	Currer	nt	195,36	50	P	rojected		327,180
							3		· · · · · · · · · · · · · · · · · · ·
3. Hydr	aulic Data:		Base Flo	ood Q100=	~542			ft^3 / s	
-	= unknown		The floo	od of reco	rd, if grea	ter tl	nan Q100:	unknown	
Q=	unknown	ft^3 / s		WSE=	unknow	'n			
Overtor	ping flood	Q=	unknowi	ft^3/s		v	VSE=	unknown	
	IP maps an				S X		NO		
5. Attac	highway lo YES h map with he base flo	S	_	N	O <u>X</u>		·	er improvem	ents
within t	ne base no	oupiaiii.							
Potentia	ıl Q100 back	water da	amages:						
A. Re	sidences?				N	1O	X	YES	
B. Otl	ner Bldgs?				1	NO_	X	YES	
C. Cro	ops?				1	NO_	X	YES	
D. Na	tural and b	eneficial	floodplai	n values?	1	/O_	X	YES_	
6. Type	of Traffic:								
A. Eme	rgency sup	ply or ev	acuation 1	oute?	N	Ю	X	YES	
	rgency vehi				1	NO _	X	YES	
C. Pract	icable deto	ur availa	able?		1	NO _		YES	X

D. School	bus or mail route?		NO		X	YES					
7. Estimat	ted duration of traffic	interruption for 10	0-year event	t hours	S:	2					
8. Estimat	8. Estimated value of Q100 flood damages (if any) – moderate risk level.										
A.	Roadway	\$ 0	_								
B.	Property	\$ 0 \$ 0 \$ 0									
	Total	\$ 0	_ _								
9 Assessment of Level of Risk Low X Moderate High											
_	For High Risk projects, during design phase, additional Design Study Risk Analysis May be necessary to determine design alternative.										
_	– Dist. Hydraulic Englishers 3,4,5,7,9)	gineer				Date					
	ny longitudinal encroa ble Floodplain develo		t encroachm	ent, o	r any s	upport of					
			NO		X	YES					
If yes, pro 23 CFR 6	ovide evaluation and c 50.113	liscussion of practic	cability of al	lternat	ives in	accordance with					
	Information developed to comply with the Federal requirement for the Location Hydraulic Study shall be retained in the project files.										
Signature	Dist. Project Engin	eer				Date					
(Item num	nbers 1,2,6,8)										

Dist	t.	8	_Co.	Sbd	Rte.	10	P.N		22.36	
EA		0C2500	- .					ge No.	None	
Floo	odpla	in Descrip	otion:	Colton Sou	thwest S	torm Drai	n			
										_
		-	-	(include any						
Free	eway	widening	and retai	ning wall						
2 4	DT:		Carmana		167.166	<u> </u>	Duo	ا معمما		200 100
2. A	MDI:		Current		167,160	<u>)</u>	Pro	jected		290,190
	•	ulic Data: unknown		Base Floo The flood	-	d, if great	ter tha		ft^3 / s	
Q=		unknown	ft^3 / s		WSE=	unknow	n_			
Ove	ertop	ping flood	Q=	unknown	m^3 / s		WS	E=	unknown	
Are	NFI	P maps an	d studies	available?	YES	S X		NO		
4. Is	s the			Iternative w			flood	way?		
		YES	·	_	NC	<u> </u>				
with	nin th	ne base flo	odplain.		d showir	ng all bui	ldings	or othe	er improven	nents
Pote	entia	l Q100 back	water da	mages:						
A.	Res	sidences?				N	O	X	YES	
B.	Oth	er Bldgs?				N	10 <u> </u>	X	YES	
C.	Cro	ps?				N	Ю	X	YES	
D.	Nat	ural and b	eneficial	floodplain	values?	N	Ю	X	YES	
6. T	ype	of Traffic:								

X
X
with
nulic

Dist	t. <u>8</u>	Co.	Sbd	Rte.	10	_ P.M.	22.9	
						Bridge		
EA	0C25	00				No.		
Floo	odplain Desc	ription:	11th Stree	et Storm D	rain adjacent	to EB roadb	oed.	
_								
1. D	escription of	Proposal (i	nclude any p	hysical b	arriers i.e. c	oncrete bar	riers, sound	walls,
etc.	and design e	lements to m	inimize floo	dplain in	npacts)			
Free	eway widenii	ng and retain	ing wall					
2. A	ADT:	Curren	ıt		_	Projected		
							_	
3. H	Iydraulic Dat	a:	Base Flo	od Q100=		490	$_{\rm ft}^3/{\rm s}$	
WS	E100= unkno	wn	The floor	d of recor	d, if greater	than Q100:		
Q=	unkno	$\frac{1}{2}$ wn $\int ft^3 / s$		WSE=	unknown	_		
Ove	ertopping floo	od Q=	unknown	m^3/s		WSE=	unknown	
	NFIP maps					NO		
	-					=		
4. Is	s the highway	location alt	ernative with	nin a regu	latory flood	way?		
	<u> </u>	YES		NO	X			
						_		
5. A	ttach map w	ith flood lim	its outlined s	showing a	ıll buildings	or other im	provements	within
	base floodpla			C	C		1	
Pote	ential Q100 ba	ckwater dam	ages:					
A.	Residences'	?			NO	X	YES _	
B.	Other Bldgs	?			NO	X	YES _	
C.	Crops?				NO	X	YES	
D.	Natural and	beneficial fl	oodplain val	ues?	NO	X	YES	
6. T	ype of Traffi	c:						
	Emergency su			?	NO	X	YES _	
	Emergency ve				NO	X	YES _	
C. F	Practicable de	etour availab	le?		NO		YES	X

D. School	l bus or mail route?		NO _	X	YES					
7. Estima	ted duration of traffic	interruption for 10	0-year event h	ours:	0					
8. Estima	ted value of Q100 floo	d damages (if any)	– moderate ris	k level.						
A.	Roadway	\$ 0	<u>.</u>							
B.	Property	\$ 0	<u>) </u>							
	Total	\$ 0	<u> </u>							
9	Assessment of Leve	el of Risk	Low	X						
			Moderate		_					
			High		_					
May be n Signature (Item num	For High Risk projects, during design phase, additional Design Study Risk Analysis May be necessary to determine design alternative. Signature – Dist. Hydraulic Engineer									
			NO _	X	YES					
If yes, pro 23 CFR 6	ovide evaluation and 50.113	discussion of practi	cability of alte	rnatives i	n accordance with					
	Information developed to comply with the Federal requirement for the Location Hydraulic Study shall be retained in the project files.									
Signature	– Dist. Project Engir	neer			Date					
(Item nun	nbers 1,2,6,8)									

Dist.	-	8	Co.	Sbd	Rte.	10	P.M.	23.6	
EA		0C2500					_	54 0830 L R	
Flood	dplair	n Description	n:	Warm (Ly	rtle) Creek	. Floodplain			
					,				
_									
	_	tion of Propesign eleme		• •	-		oncrete barr	iers, soundw	alls,
Bridg	ge Wi	dening							
2. AI	OT:		Current		181,000	-	Projected		290,140
3 Hx	ıdran	lic Data:		Rase Flor	od O100-		67 000	ft ³ /s	
						d, if greater		- 10 / 5	
	_	unknown		=		unknown			
		ng flood Q					WSE=	unknown	
		•			_	X			
5. At	tach 1	YES		-	NO	latory flood ^o X ll buildings		provements	within
		oodplain. Q100 backwa	ater damaş	ges:					
A	Pació	lences?				NO	X	YES	
		: Bldgs?				NO	X	YES	
	Crops	_				NO	X	YES	
	-	ral and bene	eficial floo	odplain val	ues?	NO	X	YES	
6. Ty	pe of	Traffic:							
A. Eı	merge	ency supply	or evacua	ation route	?	NO	X	YES	
B. Er	nerge	ency vehicle	e access?			NO	X	YES	
C. Pr	actica	able detour	available	?		NO		YES	X

D. School bus or mail route? NO X YES											
7. Estimat	ted duration of traffic	interruption for 100)-year event h	ours:	0						
8. Estimated value of Q100 flood damages (if any) – moderate risk level.											
A.	Roadway	\$ 0	_								
B.	Property	\$ 0									
	Total	\$ 0 \$ 0	- -								
9	Assessment of Level	of Risk	Low	X							
	rissessment of Level	OTTUSK	Moderate _	71	-						
			High		-						
			Iligii _		-						
_	Risk projects, during ecessary to determine		onal Design S	Study Risk	Analysis						
Signature	– Dist. Hydraulic Eng	gineer			Date						
(Item num	nbers 3,4,5,7,9)										
	ny longitudinal encroa ble Floodplain develo	_	encroachmer	it, or any s	support of						
			NO _	X	YES						
If yes, pro CFR 650.	ovide evaluation and d 113	iscussion of practic	ability of alte	rnatives in	accordance with 23						
Information developed to comply with the Federal requirement for the Location Hydraulic Study shall be retained in the project files.											
Signature	– Dist. Project Engine	eer			Date						

(Item numbers 1,2,6,8)

Dist	•	8	Co.	Sbd	Rte.	10	P.M.	23.82	
			_		_			54 092 G R	
EA		0C2500	=				No.	L	
Floo	odplai	n Descriptio	on:	Santa Ana	a River Fl	oodplain			
		otion of Pro					oncrete barr	iers, soundwa	lls, etc.
Bric	lge W	idening, Su	bstructure	Work in t	he Chanr	nel, Seismic	Retrofit		
2. A	DT:		Current		181,000	_	Projected		290,140
3. H	lydrau	lic Data:		Base Flo	od Q100=		70,000	ft^3/s	
WS	E100=	966		The floor	d of reco	rd, if greater	than Q100:		
Q=		unknown	ft^3 / s		WSE=	unknown	_		
Ove	rtoppi	ng flood Q	=	unknown	m^3 / s		WSE=	unknown	
Are	NFIP	maps and s	studies ava	ilable?	YES	X	NO		
5. A	ttach:	YES	X	-	NO	ulatory flood	_	provements w	ithin the
Pote	ential (Q100 backwa	ater damaş	ges:					
A.	Resid	dences?				NO	X	YES	
B.		r Bldgs?				NO	X	YES	
C.	Crop	_				NO	X	YES	
D.	Natu	ral and ben	eficial floo	odplain val	lues?	NO	X	YES	
6. T	ype of	f Traffic:							
A. E	Emerg	ency supply	y or evacua	ation route	?	NO	X	YES	
B. E	Emerge	ency vehicl	e access?			NO	X	YES	
C. P	ractic	able detour	available'	?		NO		YES	X

D. School	l bus or mail route	?		NO	X	YES			
7. Estima	ted duration of traf	fic interruption f	or 100-y	ear event	hours:	0			
8. Estima	ted value of Q100 fl	ood damages (if	any) – n	noderate r	isk level.				
A.	Roadway	\$	0						
B.	Property	\$	0						
	Total	\$	0						
9	Assessment of Lo	evel of Risk	I	LOW	X				
			N	Moderate					
			F	High					
Signature	ecessary to determ - Dist. Hydraulic nbers 3,4,5,7,9)	C	auve.			Date			
	ny longitudinal enc ible Floodplain dev		ficant er	ncroachm	ent, or an	y support of			
			1	1O	X	YES			
If yes, pro CFR 650.		nd discussion of p	oracticab	ility of al	ternatives	s in accordance with 23			
Information developed to comply with the Federal requirement for the Location Hydraulic Study shall be retained in the project files.									
Signature	– Dist. Project En	gineer				Date			
(Item nun	nbers 1,2,6,8)								

Dist		8	Co.	Sbd	Rte.	10	P.M.	25.46			
EA		0C2500	_				Bridge No.	54 0599			
Floo	odplai	n Description	on:	San Timoteo Channel Floodplain							
_											
	-	otion of Pro esign eleme	-		. •		concrete barr	iers, sound	lwalls,		
Brid	lge W	idening, Su	bstructure	e Work in t	the Chanı	nel, Pier Ex	tensions				
	<u> </u>	<i>U</i> ,				,					
2. A	DT:		Current		387,950	_	Projected		639,160		
3. H	vdrau	ılic Data:		Base Flo	od Q100=		19,500	ft^3/s			
	•	1028 - 1029	9		_		r than Q ₁₀₀ :	_ 10 , 5			
Q=		unknown		-	WSE=	unknown					
Ove		ing flood Q	-	unknown			- WSE=	unknown			
		maps and s			_	X	NO				
4. Is	the h	ighway loca YES	ation alte	rnative wit	_	ılatory floo X	•				
			ood limit	s outlined			s or other im	provement	s within		
Pote	ential	Q100 backwa	ater dama	ges:							
A.	Resi	dences?				NC	X	YES			
B.	Othe	r Bldgs?				NC	X	YES			
C.	Crop	os?				NC	X	YES			
D.	Natu	ral and ben	eficial flo	odplain va	lues?	NC	X	YES			
6. T	ype o	f Traffic:									
A. E	Emerg	ency supply	or evacu	ation route	e?	NO	X	YES			
	_	ency vehicle				NC	X	YES			
C. P	ractic	able detour	available	?		NC)	YES	X		

D. School	l bus or mail route?		NO _	X	YES					
7. Estima	ted duration of traffic	interruption for 10	0-year event h	ours:	0					
8. Estima	ted value of Q100 floo	d damages (if any)	– moderate ris	k level.						
A.	Roadway	\$ 0	<u>.</u>							
B.	Property	\$ 0	<u>) </u>							
	Total	\$ 0	<u> </u>							
9	Assessment of Leve	el of Risk	Low	X						
			Moderate		_					
			High		_					
May be n Signature (Item num	For High Risk projects, during design phase, additional Design Study Risk Analysis May be necessary to determine design alternative. Signature – Dist. Hydraulic Engineer									
			NO _	X	YES					
If yes, pro 23 CFR 6	ovide evaluation and 50.113	discussion of practi	cability of alte	rnatives i	n accordance with					
	Information developed to comply with the Federal requirement for the Location Hydraulic Study shall be retained in the project files.									
Signature	– Dist. Project Engir	neer			Date					
(Item nun	nbers 1,2,6,8)									

Dist.	-	8	Co.	Sbd	Rte.	10	P.M.	27.64				
EA		0C2500					Bridge No.	54 0570				
	lplaiı	Description	on:	Mission C	Thonnol El	oodplain		34 03 70				
11000	.p.u	i Descriptio		MISSIOII	manner Fr	ооцріані						
	-	tion of Propesign eleme		• •	•	arriers i.e. conpacts)	oncrete barr	iers, sound	walls,			
Bridg	ge Wi	dening										
2. AI	DT:		Current		182,300	_	Projected		302,550			
2 11-		lia Data.		Daga Ela	ad O		7.576	£ 3 / a				
						d if greater		It / S				
	WSE ₁₀₀₌ unknown $\frac{\text{unknown}}{\text{unknown}}$ The flood of record, if greater than Q ₁₀₀ : Q= unknown $\frac{\text{unknown}}{\text{unknown}}$ WSE= unknown											
	-					ulikilowii	- WCE_	umlen ovem				
Are NFIP maps and studies available? YES X NO												
4. Is t	the h	ighway loca	tion alter	native with	nin a regu	latory flood	way ?					
					_	X	-					
		map with floodplain.	ood limits	s outlined s	showing a	all buildings	or other imp	provements	s within			
Poten	itial (Q100 backwa	ıter damaş	ges:								
A. l	Resid	lences?				NO	X	YES				
B. (Othe	Bldgs?				NO	X	YES				
C. (Crop	s?				NO	X	YES				
D.	Natu	ral and bene	eficial floo	odplain val	ues?	NO	X	YES				
6. Ty	pe of	Traffic:										
A. Er	nerge	ency supply	or evacu	ation route	?	NO	X	YES				
	_	ency vehicle				NO	X	YES				
C. Pr	actic	able detour	available	?		NO		YES	X			
D. Sc	chool	bus or mail	route?		NO	X	YES					

7. Estima	ated duration of traffic	interruption for 100	year event	hours:	0
8. Estima	nted value of Q100 flood	l damages (if any) –	moderate ri	sk level.	
A.	Roadway	\$ 0			
B.	Property	\$ 0			
	Total	\$ 0			
9	Assessment of Level	l of Risk	Low Moderate High	X	
_	Risk projects, during decessary to determine		onal Design	Study Risk	Analysis
_	e – Dist. Hydraulic Eng mbers 3,4,5,7,9)	gineer			Date
	ny longitudinal encroa tible Floodplain develo	_		•	
If yes, pr 23 CFR 6	ovide evaluation and d 550.113	liscussion of practic	NO ability of alt	X ernatives in	YES accordance with
	ion developed to comp all be retained in the pr	· · · · · · · · · · · · · · · · · · ·	requirement	for the Loc	ation Hydraulic
•	e – Dist. Project Enginombers 1,2,6,8)	eer			Date

Dist.	8	Co.	Sbd	Rte.	10		31.52				
EA	0C2500						54 0472 L R				
	plain Descrip		Zanja Cha	nnel Floo	dplain						
etc. a	scription of Pand design eler	nents to min	imize floo	dplain im			iers, soundv	valls,			
		,									
2. AE	OT:	Current		163,270	-	Projected		274,570			
3. Hy	draulic Data:		Base Floo	od Q100=		3,924	ft^3/s				
	100= unknowr						•				
	unknowr										
Overt	opping flood	 Q=	unknown	m^3/s		WSE=	unknown				
Are N	IFIP maps and	d studies ava	ilable?	YES	X	NO					
4. Is t	he highway lo			_	-	•					
	YE	S	-	NO	X						
	ach map with ase floodplain		outlined s	howing a	ıll buildings	or other imp	provements	within			
Poten	tial Q100 back	water damag	ges:								
A. I	Residences?				NO	X	YES				
В. О	Other Bldgs?					X					
C. (Crops?				NO	X	YES				
D. 1	Natural and be	eneficial floo	odplain val	ues?	NO	X	YES				
6. Ty	pe of Traffic:										
A. En	nergency supp	oly or evacua	ation route	?	NO	X	YES				
B. En	nergency vehi	cle access?			NO	X	YES				
C. Pra	acticable deto	ur available'	?		NO		YES	X			
D. Sc	hool bus or m	ail route?			NO	X	YES				

7. Estima	ated duration of traffic	c interruption for 10	0-year event h	ours:	0
8. Estima	ated value of Q100 floo	od damages (if any)	– moderate ris	k level.	
A.	Roadway	\$ 0	1		
B.	Property	\$ 0 \$ 0			
	Total	\$ 0	<u> </u>		
9	Assessment of Leve	el of Risk	Low	X	-
			Moderate _		-
			High _		_
May be r	Risk projects, during necessary to determine e – Dist. Hydraulic Er	e design alternative.	_	Study Risk	Analysis Date
_	mbers 3,4,5,7,9)	<u></u>			
	ny longitudinal encro tible Floodplain devel	_	t encroachmer	nt, or any s	support of
•	•	•	NO	X	YES
If yes, pr CFR 650	ovide evaluation and .113	discussion of practi	cability of alte	rnatives ir	accordance with 23
	ion developed to com all be retained in the p		l requirement t	for the Loc	cation Hydraulic
Signature	e – Dist. Project Engir	neer			Date
_	mbers 1,2,6,8)				<u>-</u>

Appendix E Summary Floodplain Encroachment Report

Dist. Proje Limit	ect No.:	Co. Sbd Rte 0C2500 I-10 - L.A. County Li			lge No.:	54-1117	_	
Floo	dplain Des	cription: West Cucam	onga Cre	eek				
Zone	A and AO	<u></u>	<u> </u>	· ·				
1.	Is the pro	posed action a longitud	linal enci	roachment o	f the base flo	oodplain?	No	Yes
2.	Are the ri	sks associated with the	implem	entation of tl	ne proposed	action	X X	
3.	•	proposed action suppor	t probabl	le incompati	ole floodplai	n development?	X	
4.		any significant impact			_		X	
5.	floodplair	onstruction procedures a. Are there any special r restore and preserve	l mitigati	ion measures	necessary to	o minimize	X	
6.	defined in	proposed action constitute 23 CFR, Section 650.	105(q).				X X	
7.	Are Locate explain.	tion Hydraulic Studies	that doci	ument the ab	ove answers	on file? If not		X
PRE	PARED B	Y:						
Signa	ature - Dist	Hydraulic Engineer		-	Date			
Signa	ature - Dist	Environmental Branc	h Chief	-	Date			
Signa	ature - Dist	Project Engineer		-	 Date			

Dist. Project No.: Limits:	8 Co. Sbd Rte. 10 P.M. OC2500 Bridge N I-10 – LA County Line to Ford St. in Redlands	No.:	-	
Floodplain	Description: Cucamonga Creek/Deer Creek Floodp	olain		
1.	Is the proposed action a longitudinal encroachment	of the base	No	Yes
2.	floodplain? Are the risks associated with the implementation of action significant?	the proposed	X	
3.	Will the proposed action support probable incompated evelopment?	tible floodplain	X X	
4.	Are there any significant impacts on natural and ber values?	neficial floodplain	X	
5.	Routine construction procedures are required to mir the floodplain. Are there any special mitigation mea to minimize impacts or restore and preserve natural floodplain values? If yes, explain.	sures necessary		
6.	Does the proposed action constitute a significant flo encroach-ment as defined in 23 CFR, Section 650.1	_	X X	
7.	Are Location Hydraulic Studies that document the a file? If not explain.	• •		X
PREPARE	DBY:			
Signature -	Dist. Hydraulic Engineer	 Date		
Signature -	Dist. Environmental Branch Chief	Date		
Signature -	Dist. Project Engineer	 Date		

Dist.	. 8	Co. Sbd Rte. 10	P.M.		
Proje	ect No.:	0C2500	Bridge No.: N/A		
Limi	its:	I-10 L.A. County Line to Ford S	t. in Redlands		
Floo	odplain Des	scription: Lower Deer Creek			
		Bowel Beel Greek			
				No	Yes
1.	Is the pro	oposed action a longitudinal encroa	achment of the base floodplain?		
	•		•	X	
2.	Are the r	isks associated with the implemen	tation of the proposed action		
	significa	nt?		X	
3.	Will the	proposed action support probable	incompatible floodplain development?		
				X	
4.	Are there	e any significant impacts on natura	l and beneficial floodplain values?		
_				<u>X</u>	
5.		construction procedures are requir	_		
	_	n. Are there any special mitigation	•		
	explain.	or restore and preserve natural and	beneficial floodplain values? If yes,		
	-			X	
6.			ficant floodplain encroach-ment as		
_		n 23 CFR, Section 650.105(q).	CI OXC	X	
7.		ation Hydraulic Studies that docum	nent the above answers on file? If not		37
	explain.				X
DDI	EDADED D	V.			
PKI	EPARED B	1.			
Sign	ature - Dist	t. Hydraulic Engineer	Date		
orgn	atare Dis	a. Hydradiie Eligineer	Bute		
Sign	ature - Dis	t. Environmental Branch Chief	Date		
·					
Sign	ature - Dis	t. Project Engineer	Date		

Dist.	8	Co.	Sbd	Rte.	10	P.M.		8.2			
Proje	ect No.:	0C2500)			Bridg	ge No.:				
Limi	ts:	I-10 - L	.A. Cou	nty Line to	Ford St.	in Redla	ınds				
Floo	dplain Des	cription:	Cal Co	mmerce C	enter Sto	rm Drain					
Zone	AH										
										No	Yes
1.	Is the pro	posed act	tion a lo	ngitudinal	encroach	ment of	the base	floodp	olain?		
										X	
2.	Are the r	isks assoc	iated wi	ith the imp	lementat	ion of the	propos	ed acti	on		
	significa	nt?								X	
3.	Will the	proposed	action s	upport pro	bable inc	ompatibl	e floodp	lain de	evelopmen	ıt?	
										X	
4.	Are there	any sign	ificant i	mpacts on	natural a	nd benefi	cial floo	odplain	values?		
										X	
5.	Routine of	constructi	on proce	edures are	required	to minim	ize impa	acts on	the		
	floodplai	n. Are the	ere any s	special mit	igation m	neasures i	necessar	y to mi	inimize		
	impacts of	or restore	and pres	serve natur	al and be	eneficial f	loodpla	in valu	es? If yes,		
	explain.									X	
6.	Does the	nronosed	action o	constitute a	sionific	ant flood	nlain en	croach	-ment as		_
0.				n 650.105(_	unt mood	piani cir	croacn	ment as	X	
7.				tudies that	-	it the abo	ve answ	ers on	file? If no		
<i>,</i> .	explain.	ttion Hyd	iaune St	udies that	documen	it the abo	ve answ	CIS OII	ine. ii no	·	X
	скритт.										<u> </u>
DDE	PARED B	·V·									
FIXE	TAKED D	1.									
<u></u>	D:	4 TT11					D-4-		-		
Signa	ature - Dis	t. Hyarau	iic Engii	neer			Date				
C:	otuma Dia	· Fassinan		Duon ob Ch			Data		_		
Signa	ature - Dis	ı. Environ	mental	branch Ch	iei		Date				
Sign	ature - Dis	t Project	Enginee	r			Date		-		
DIZII	ature - DIS	i. I I U CCl	Luginde	1			Daic				

Dist.	8	Co.	Sbd	Rte.	10	P.M.		10.99		
Proje	ect No.:	0C2500)			Bridge	No.:	54 0378L	L R S	
Limi	ts:	I-10 L.	A. Count	y Line to	Ford S	t. in Redland	S			
Flood	dplain Des	cription:	Etiwan	da Creek	Floodp	lain				
Zone	<u>A</u>									
									No	Yes
1.	Is the pro	posed ac	tion a lo	ngitudina	l encroa	achment of the	e base f	floodplain?		
_									<u>X</u>	
2.			ciated wi	th the im	plement	tation of the	propose	d action	***	
2	significat		4:		.11.1		£1 1 1		<u>X</u>	
3.	will the	proposea	action si	upport pro	obabie i	incompatible	пооарі	ain developme		
4	Ara thara	ony cian	ificent in	mneets on	noturo	l and banafia	ial floor	dalain valuas?	<u>X</u>	
4.	Are there	any sign	iiiicant n	npacts of	natura	i and benefic	181 11000	dplain values?	X	
5.	Routine a	constructi	ion nroce	dures are	require	ed to minimiz	ze imna	cts on the		
٥.			•		•		•	to minimize		
	•		•	•	_		•	n values? If yes		
	explain.		P							
6	_	nronoso	l action c	onetituta	o cioni	ficant floodn	lain ana	roach-ment as	<u>X</u>	
6.				1 650.105	_	ncant nooup	iaiii eiic	ioacii-iiieiii as	X	
7.					_	nent the abov	e answe	rs on file? If no		
<i>,</i> .	explain.	ttion riya	raune St	dates that	docum	ioni the abov	e answe	is on the. If he	,,	X
	· · · · · · · · · · · · · · · · · · ·									
PRE	PARED B	Y:								
Signa	ature - Dist	t. Hydrau	lic Engir	neer			Date			
C		·	C							
Signa	ature - Dist	t. Enviror	nmental l	Branch Cl	nief		Date			
Signa	ature - Dist	t. Project	Enginee	r			Date			

Dist.		Co. 0C2500	Sbd	Rte.	10		P.M.	No.	11.6		0454 L	D C		
Limit	ect No.: ts:		.A. Cou	nty Line	to Ford		Bridge Redlan			34	0434 L	KS		
Floo	dplain Des	cription:		vaine Ch		erossing	under	I-10.	Q ₁₀₀	is cor	ntained	with	in concr	rete lined
			a 1a.	: 6 4:	.1		4 of 41-	- 1	. fl.a.	مان دا ما	. 2		No	Yes
1.	Is the pro	posed act	tion a ioi	ngituain	ai encro	oacnmen	t or tn	ie base	2 11000	apiair	1.		X	
2.	Are the ri significar		ciated wi	th the in	nplemei	ntation o	of the j	propos	sed ac	tion		_	X	
3.	3. Will the proposed action support probable incompatible floodplain development?										X			
4.	4. Are there any significant impacts on natural and beneficial floodplain values?										X			
5.	Routine of floodplain impacts of explain.	n. Are the	ere any s	pecial m	itigatio	n measu	ires ne	ecessai	ry to 1	ninin			X	
6.	Does the defined in				_	ificant f	loodp	lain en	ncroac	h-me	nt as	_	X	
7.	Are Loca explain.	tion Hydi	raulic St	udies th	at docui	ment the	abov	e answ	vers o	n file	? If not	- -		X
PRE	PARED B	Y:												
Signa	nture - Dist	. Hydraul	lic Engir	neer				Date						
Signa	nture - Dist	. Environ	mental l	Branch (Chief			Date						
Signa	ature - Dist	. Project	Enginee	r				Date						

Dist. Proje Limi	ect No.:	Co. 0C2500 I-10 - L	Sbd A. Coun	Rte.	10 to Fore	d St. in		e No.:	14.	<u>5</u>		_	
	dplain Desc	eription:	Shallow	Pondii	ng adja	cent to	WB I	-10 Fre	eeway	betwe	en Cherr	·y	
1.	Is the proj	posed ac	tion a long	gitudin	al encr	oachme	ent of t	he bas	e flood	dplain	?	No	Yes
2.	Are the ri		ciated with	h the in	npleme	entation	of the	propo	sed ac	etion		X X	
3. Will the proposed action support probable incompatible floodplain development?										X			
4.	Are there	any sign	ificant im	pacts c	n natui	ral and	benefi	cial flo	odpla	in valı	ies?	X	
5.	Routine c floodplain impacts o	n. Are the	ere any sp	ecial m	nitigatio	on meas	sures r	iecessa	ry to 1	minimi			
6.	explain. Does the defined in				_	nificant	flood	plain e	ncroac	ch-mer	nt as	X X	
7.	Are Locate explain.	tion Hyd	raulic Stu	dies th	at docu	ment th	ne abo	ve ansv	wers o	n file?	If not		X
PRE	PARED B	Y:											
Signa	ature - Dist	. Hydrau	lic Engine	eer				Date	;				
Signa	ature - Dist	. Enviror	ımental B	ranch (Chief			 Date	 ;				
Signa	ature - Dist	. Project	Engineer					——— Date	,				

Dist.		P.M. 22.36		
	ect No.: 0C2500	Bridge No.:		
Limi	ts: <u>I-10 - L.A. County Line to Ford St. in</u> City of Colton	i Redialids.		
	edplain Description: Colton Southwest Storm Dra	in_		
1.	Is the proposed action a longitudinal encroachment	ent of the base floodplain?	No X	Yes
2.	Are the risks associated with the implementation significant?	n of the proposed action	X	
3.	Will the proposed action support probable incom	npatible floodplain developm	nent?	
4.	Are there any significant impacts on natural and	beneficial floodplain values	? <u> </u>	
5.	Routine construction procedures are required to floodplain. Are there any special mitigation mea impacts or restore and preserve natural and bene explain.	sures necessary to minimize		
6.	Does the proposed action constitute a significant defined in 23 CFR, Section 650.105(q).	•	X	
7.	Are Location Hydraulic Studies that document t explain.	he above answers on file? If	not 	X
PRE	PARED BY:			
Sign	ature - Dist. Hydraulic Engineer	Date		
Sign	ature - Dist. Environmental Branch Chief	Date		
Sign	ature - Dist. Project Engineer	 Date		

Dist. Proje Limit	ect No.:	Co. 0C250 I-10 - I	Sbd 0 L.A. Cour	Rte.	10 to For	d St. in	P.M. Bridge Redla		22.9	9		_		
Floo	dplain Des	cription	11th St	reet Sto	rm Dra	in adja	cent to	EB roa	adbed.					
1.	Is the pro	posed ac	etion a lo	noitudin	al encr	oachm	ent of t	he base	e flood	Inlain	7	No)	Yes
	-	_									•	X		
2.	Are the ri		ciated wi	th the 1r	npleme	entation	of the	propos	sed act	tion		X		
3.	Will the p	proposed	action s	upport p	robable	e incon	npatible	e flood _l	plain c	develo	pment?	X		
4.	Are there	any sign	nificant in	npacts o	on natu	ral and	benefi	cial flo	odplai	in valı	ies?	X		
5.	Routine of floodplain impacts of explain.	n. Are th	ere any s	pecial n	nitigatio	on mea	sures n	ecessai	ry to n	ninim		A		
6.	Does the	propose	d action o	onstitut	e a sigi	nificant	floodp	olain er	icroac	h-mei	nt as	<u>X</u>		
7.	defined in Are Loca explain.				_	ıment tl	ne abov	e answ	ers or	n file?	If not	X		X
PRE	PARED B	Y:												
Signa	ature - Dist	. Hydrau	ılic Engir	neer				Date						
Signa	ature - Dist	. Enviro	nmental l	Branch (Chief			Date						
Signa	ature - Dist	. Project	Enginee	r				—— Date						

Dist.	8	Co.	Sbd	Rte.	10	P.M.		23.6			
Proje	ect No.:	0C250	0			Bridge	No.:	54	40830 L R		
Limit	ts:	I-10 - I	L.A. Cou	nty Line 1	to Ford St	t. in Redlan	ds				
the C	ity of Colt	ton									
Floo	dplain Des	scription	: Warm (Lytle) C	reek Floo	dplain					
				<u> </u>							
										No	Yes
1.	Is the pro	posed ac	ction a lor	ngitudina	l encroac	hment of th	e base f	floodpla	in?		
										X	
2.	Are the r	isks asso	ciated wi	th the im	plementa	tion of the j	propose	d action	ı		
	significa	nt?								X	
3.	Will the j	proposed	l action su	apport pr	obable in	compatible	floodpl	ain deve	elopment?		
										X	
4.	Are there	any sign	nificant ir	npacts or	natural a	and benefic	ial floo	dplain v	alues?		
										X	
5.			•		•	l to minimiz	•				
			•	•	_	neasures ne	•				
	-	or restore	and pres	erve natu	ıral and b	eneficial flo	oodplaii	n values	? If yes,		
	explain.									X	
6.	Does the	propose	d action c	onstitute	a signific	cant floodpl	ain enc	roach-m	nent as		
	defined in	n 23 CFI	R, Section	650.105	(q).	_				X	
7.	Are Loca	tion Hyd	draulic St	udies tha	t docume	nt the above	e answe	rs on fil	e? If not		
	explain.										X
PRE	PARED B	Y:									
Signa	ature - Dist	t. Hydrau	ılic Engin	ieer			Date				
Signa	ature - Dist	t. Enviro	nmental I	Branch C	hief		Date				
Signa	ature - Dist	t. Project	Engineer	r			Date				

Dist.	8	Co.	Sbd	Rte.	10	P.M	23.	82		
Proje	ect No.:	0C2500	0			Bridge No).:	54 0292 G R	L	
Limi	ts:	I-10 - I	A Coun	ty Line	to Ford	St. in Redlands		•		
Floo	dplain Des	scription:	Santa A	na Rive	r Flood	plain				
							~		No	Yes
1.	Is the pro	posed ac	tion a loi	ngitudina	al encro	achment of the b	ase floo	odplain?	•	
2	A 41	.1		4141	1		1 .	- 4 :	<u>X</u>	
2.	significat		ciated wi	tn tne in	ipiemen	tation of the pro	posea a	ction	v	
3.	•		action si	innort n	mhahle	incompatible flo	odnlain	development?	<u>X</u>	
3.	will the	proposed	action so	іррогі рі	Obabic	meompatible no	oupiani	development:	X	
4.	Are there	anv sign	nificant ir	npacts o	n natura	al and beneficial	floodpl	ain values?		
	1110 011010	u 11, 0181					p.	 , 	X	
5.	Routine o	constructi	ion proce	dures ar	e requir	red to minimize i	mpacts	on the		
	floodplai	n. Are th	ere any s	pecial m	itigatio	n measures neces	sary to	minimize		
	_	or restore	and pres	erve nat	ural and	l beneficial flood	plain v	alues? If yes,		
	explain.								X	
6.	Does the	proposed	d action c	onstitute	e a signi	ficant floodplair	encroa	ich-ment as		
	defined in	n 23 CFR	R, Section	650.10	5(q).				X	
7.	Are Loca	tion Hyd	lraulic St	udies tha	t docun	nent the above ar	iswers (on file? If not		
	explain.									X
PRE	PARED B	Y:								
Sign	ature - Dist	Llydron	lie Engin	uoor			ate			
Signa	iture - Disi	. Hyurau	ine Engin	icci		D	att			
Signa	ature - Dist	t. Enviro	nmental I	Branch C	Chief	D	ate			
J										
Signa	ature - Dist	t. Project	Engineer	r		D	ate			

Dist.	8	Co.	Sbd	Rte.	10	P.M.	2	5.46		
Proje	ct No.:	0C2500					e No.:	54 0599		
Limit	ts:	I-10 - I	.A. Cou	nty Line	to Ford St	t. in Redla	nds			
Floo	dplain Des	scription:	San Tir	noteo C	hannel Flo	odplain				
										T 7
1	Is the mus		tion o lo	n aitu din	o1 on ono o o	hmant of t	ha hasa fl	andmin's	No	Yes
1.	is the pro	poseu ac	tion a lo	ngnuam	ai elicioac	iiiieiit oi t	ne base n	loodplain?	X	
2.	Are the r	isks assoc	ciated wi	th the in	nplementa	tion of the	proposed	l action		
	significat						proposed	- 4-01-	X	
3.	Will the	proposed	action s	upport p	robable in	compatible	e floodpla	nin development?		
									X	
4.	Are there	any sign	iificant ii	mpacts o	n natural a	and benefi	cial flood	plain values?		
			_						<u>X</u>	
5.			-		•	to minimi	•			
	•		•	•	•		•	to minimize values? If yes,		
	explain.	or restore	and pres	oci ve mai	urar and o	Chefferal L	юоцріані	values: II yes,	***	
4	-	****	l action (. anatitut	a a siamifia	ant flaads	alain anam	and ment of	<u>X</u>	
6.	defined i				_	cant 1100uj	nam encr	oach-ment as	X	
7.					-	nt the abov	e answer	rs on file? If not		
	explain.	.01011 119 0					• • • • • • • • • • • • • • • • • • •			X
	•									
PRE	PARED B	Y :								
<u>. </u>	, D'		1. F .							
Signa	ture - Dist	t. Hyarau	iic Engir	ieer			Date			
Signa	ture - Dist	t. Enviro	ımental J	Branch (Chief		Date			
-										
										
Signa	ture - Dist	t. Project	Enginee	r			Date			

Dist. Proje Limit	ct No.:	Co. 0C2500 I-10 - L	Sbd) A. Count	Rte.	10 to Ford S		lge No.:	27.64 <u>5</u>	4 0570	_	
Floo	dplain Des	cription:	Mission	Channe	el Floodp	lain					
1.	Is the pro	posed ac	tion a long	gitudina	al encroac	chment o	f the base t	floodpla	in?	No X	Yes
2.	Are the ri significan		ciated with	n the in	nplementa	ation of t	ne propose	d action	1	X	
3.	Will the p	roposed	action sup	port pi	obable ir	ncompati	ole floodpl	ain dev	elopment?	X	
4.	Are there	any sign	ificant im	pacts o	n natural	and bene	ficial floo	dplain v	alues?	X	
5.	floodplair	n. Are the	ere any sp	ecial m	itigation	measure	mize impa necessary floodplain	to min	imize	X	
6.			l action co		•	cant floo	dplain enc	roach-n	nent as	X	
7.	Are Locatexplain.	tion Hyd	raulic Stu	dies tha	t docume	ent the ab	ove answe	ers on fi	le? If not		X
PRE	PARED B	Y:									
Signa	nture - Dist	. Hydrau	lic Engine	er			Date				
Signa	nture - Dist	. Enviror	nmental Br	ranch C	 Chief		Date				
Signa	nture - Dist	. Project	Engineer				Date				

Dist.	8	Co.	Sbd	Rte.	10]	P.M	27	<u>′.64</u>			
Proje	ct No.:	0C2500)]	Bridge N	lo.:	54 04	72 L R	_	
Limit	ts:	I-10 - L	.A. Cou	nty Line	to Ford S	t. in I	Redlands	S				
Floo	dplain Des	scription:	Zanja (Channel	Floodplai	n						
												*7
1	T - 41				.1	. 1	. 4 . C 41	1	410		No	Yes
1.	is the pro	posed act	10n a 10	ngituain	al encroac	enmer	it of the	base 110	ooapiain?		v	
2.	Are the r	ieke accor	sisted w	ith the in	nplementa	ation (of the pr	onosad	action		X	
۷.	significat		iated wi	itii tiic iii	пристисти	ition (or the pr	oposcu	action		X	
3.	•		action s	unnort n	robable in	comr	natible fl	oodnlai	n developi	ment?		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	proposed		appoint.				o o op i u i	ar do votop.		X	
4.	Are there	any sign	ificant i	mpacts o	n natural	and b	eneficia	l floodr	olain value	s?		
		, .		•				•			X	
5.	Routine o	constructi	on proce	edures ai	e required	d to n	ninimize	impact	s on the			
	_			_	_				o minimize			
	_	or restore	and pres	serve nat	ural and b	enefi	cial floc	dplain	values? If	yes,		
	explain.										X	
6.	Does the	proposed	action	constitut	e a signifi	cant f	floodplai	in encro	ach-ment	as		
	defined in				-						X	
7.		tion Hydi	raulic St	udies tha	at docume	ent the	e above a	answers	on file? If	fnot		
	explain.											X
PRE	PARED B	Y:										
Ciana	tuma Diat	Hydeoul	io Engi				- T	Doto.				
Signa	ature - Dist	. Hydraul	ne Engh	ieer			1	Date				
Signa	ature - Dist	t. Environ	mental l	Branch (Chief		Ī	Date				
5												
							_					
Signa	ature - Dist	. Project	Enginee	r			I	Date				